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CORRECTED NOTICE OF ALLOWANCE AND FEE(S) DUE

23911

7590

04/18/2007

CROWELL & MORING LLP INTELLECTUAL PROPERTY GROUP P.O. BOX 14300 WASHINGTON, DC 20044-4300 EXAMINER

SOTOMAYOR, JOHN B

ART UNIT PAPER NUMBER

3662 DATE MAILED: 04/18/2007

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
07/578.515	08/16/1990	GEORGE E. MATICH	GEC-0462	3617

TITLE OF INVENTION: RANGING SYSTEMS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$0	\$0	\$1400	07/18/2007

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correct maintenance fee notifica	form should be used correspondence including debelow or directed others.	for transmitting the ISS ng the Patent, advance of herwise in Block 1, by	UE FEE and PUBLICAT orders and notification of r (a) specifying a new corres	ION FEE (if requirements represented to the second record representation of the second research representation	ired). Blocks 1 through 5 will be mailed to the curre ; and/or (b) indicating a se	should be completed where nt correspondence address as parate "FEE ADDRESS" for	
CURRENT CORRESPOND	ENCE ADDRESS (Note: Use B	tock 1 for any change of address)	Fee	(s) Transmittal. Th ers. Each additions	mailing can only be used is certificate cannot be used al paper, such as an assignr of mailing or transmission	for domestic mailings of the d for any other accompanying nent or formal drawing, must	
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WASHINGTON	I, DC 20044-4300					(Depositor's name)	
					, <u>-</u>	(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
07/578,515	08/16/1990		GEORGE E. MATICH		GEC-0462	3617	
TITLE OF INVENTION	: RANGING SYSTEMS	3					
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nonprovisional	NO	\$1400	\$0	\$0	\$1400	07/18/2007	
EXAM	INER	ART UNIT	CLASS-SUBCLASS]			
SOTOMAYO	OR, JOHN B	3662	342-145000				
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Change of corresp Address form PTO/SI	ondence address (or Cha B/122) attached.		(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.	ication (or "Fee Address 2 or more recent) attach	" Indication form ned. Use of a Customer	registered attorney or agent) and the names of up to				
			THE PATENT (print or typ	•			
PLEASE NOTE: Unl recordation as set fort	less an assignee is ident h in 37 CFR 3.11. Com	ified below, no assigned pletion of this form is NO	e data will appear on the part of the part	atent. If an assign	ee is identified below, the	document has been filed for	
(A) NAME OF ASSIG			(B) RESIDENCE: (CITY				
					•		
Please check the appropr	iate assignee category or	categories (will not be p	printed on the patent) :	Individual 🗆 Co	orporation or other private g	group entity Government	
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Plea	se first reapply a	ny previously paid issue fe	e shown above)	
Issue Fee			A check is enclosed.				
	lo small entity discount p		Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				
			overpayment, to Depo	sit Account Number	er(enclose	an extra copy of this form).	
5. Change in Entity Sta	tus (from status indicated s SMALL ENTITY state		Dh. Ameliaantia na lan	l-ii CNAA	LL ENTITY status. See 37	CFR 1 27(1)(2)	
						the assignee or other party in	
interest as shown by the	records of the United Sta	ites Patent and Trademar	k Office.		or agoin, or		
Authorized Signature				Date			
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an application. Confiden	tiality is governed by 35 dapplication form to the	U.S.C. 122 and 37 CFR USPTO. Time will var	1.14. This collection is est y depending upon the indiv	imated to take 12 idual case. Any co	minutes to complete, included mments on the amount of	nd by the USPTO to process) ing gathering, preparing, and time you require to complete	

this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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CROWELL &	MORING	LLP	SOTOMAYO	DR, JOHN B	
INTELLECTUA	AL PROPER	TY GROUP		ART UNIT	PAPER NUMBER
P.O. BOX 1430 WASHINGTON	-	-4300		3662 DATE MAILED: 04/18/200'	7 .

Determination of Patent Term Extension or Adjustment under 35 U.S.C. 154 (b)

(application filed prior to June 8, 1995)

This patent application was filed prior to June 8, 1995, thus no Patent Term Extension or Adjustment applies.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

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07/578,515	MATICH ET AL.	
Examiner	Art Unit	
John B. Sotomayor	3662	
S (OR REMAINS) CLOSED in this app 5) or other appropriate communication	plication. If not include	ed
rescind rendered June 15, 2006.		
		ion from the
of this communication to file a reply of MENT of this application.	complying with the req	uirements
mitted. Note the attached EXAMINER' ves reason(s) why the oath or declarate	'S AMENDMENT or No tion is deficient.	OTICE OF
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rson's Patent Drawing Review (PTO-9	948) attached	
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1.84(c)) should be written on the drawin the header according to 37 CFR 1.121(c	ngs in the front (not the i).	back) of
OSIT OF BIOLOGICAL MATERIAL IN FFOR THE DEPOSIT OF BIOLOGICA	nust be submitted. N AL MATERIAL.	ote the
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<u> </u>	* *	⊬152)
Paper No./Mail Date		
8. Examiner's Statemen	nt of Reasons for Allov	vance
9. Other	John B. Sotomayor Primary Examiner Art Unit: 3662	
	John B. Sotomayor Dears on the cover sheet with the costs (OR REMAINS) CLOSED in this application is subject to 13 and MPEP 1308. Descind rendered June 15, 2006. Descind rendered June 15, 2006.	Desars on the cover sheet with the correspondence address (OR REMAINS) CLOSED in this application. If not include of or other appropriate communication will be mailed in due or RIGHTS. This application is subject to withdrawal from issue and MPEP 1308. Descrid rendered June 15, 2006. Descrid re

Notice of References Cited

Application/Control No. 07/578,515	Applicant(s)/Patent Under Reexamination MATICH ET AL.	
Examiner	Art Unit	
John B. Sotomayor	3662	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	Α	US-5,023,888 A	06-1991	Bayston, Thomas E.	375/239
*	В	US-5,047,780 A	09-1991	Dijkstra, Jan A.	342/145
*	O	US-5,337,052 A	08-1994	Lohrmann et al.	342/68
*	D	US-5,347,281 A	09-1994	Lewis et al.	342/160
*	Ε	US-5,731,782 A	03-1998	Walls, Raymond John	342/145
*	F	US-5,898,401 A	04-1999	Walls, Raymond John	342/82
*	G	US-6,211,812 B1	04-2001	Chiles et al.	342/145
*	H	US-6,225,943 B1	05-2001	Curley et al.	342/137
*	_	US-6,628,228 B1	09-2003	Matich et al.	342/75
*	J	US-6,977,611 B1	12-2005	Crabb, Ronald T.	342/122
*	Ķ	US-6,989,783 B1	01-2006	Matich et al.	342/145
	L	US-			
	М	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	GB 2303509 A	02-1997	United Kingdom	MATICH et al.	
	0	GB 2303754 A	02-1997	United Kingdom	MATICH et al.	
	Ρ	GB 2305323 A	04-1997	United Kingdom	WALLS, RAYMOND JOHN	
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

		HONT ATENT DOCUMENTS
*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	υ	
	v	
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Commissioner for Patents United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450 www.uspto.gov

Serial No.: 07/578515

Applicant: Filing Date:

Date Mailed: 4/18/07

NOTICE TO FILE CORRECTED APPLICATION PAPERS

Notice of Allowance Mailed

This application has been accorded an Allowance Date and is being prepared for issuance. The application, however, is incomplete for the reasons below.

Applicant is given 90 days from the mail date of this Notice within which to correct the informalities indicated below. If the informality pertains to the abstract, specification (including claims) or drawings, the informality must be corrected with an amendment in compliance with 37 CFR 1.121 (or, if the application is a reissue application, 37 CFR 1.173). Such an amendment may be filed after payment of the issue fee if limited to correction of informalities noted herein. See Waiver of 37 CFR 1.312 for Documents Required by the Office of Patent Publication, 1280 Off. Gaz. Patent Office 918 (March 23, 2004). In addition, if the informality is not corrected until after payment of the issue fee, for purposes of 35 U.S.C. 154(b)(1)(iv), "all outstanding requirements" will be considered to have been satisfied when the informality has been corrected. A failure to reply will result in the application being ABANDONED. This period for reply is NOT extendable under 37 CFR 1.136(a).

See attachment.

A copy of this notice <u>MUST</u> be returned with the reply. Please address response to "Mail Stop Issue Fee, Commissioner for Patents,
P.O. Box 1450, Alexandria, VA 22313-1450".

Arthur McCloud

Office of Patent Publication Phone: 703-308-9250, ext. 136

Application No. 07 578515 Drawings filed 8/16/70 + 11/20/9

IDENTIFICATION OF DRAWING DEFICIENCIES

	There is a hole or the image thereof within the illustration. FIG(s)					
	The character of the lines, numbers and letters is poor. FIG(s)					
	The illustration is penetrated or traversed by a solid or broken line that is not intended to be part of the drawing, such as a dark line caused by a flaw in the copying process. FIG(s)					
	An ink stamp or an image obscures part of the illustration. FIG(s)					
Ø	The drawing is marred by black smudges, obliterations, or fax/copier marks. FIG(s) 1 - 8					
	Figure numbers are duplicated or missing. FIG(s).					
	Numbers, letters, or reference characters in the drawing have been crossed out by hand or are illegibly handwritten. FIG(s)					
	The drawing's background shows that the original drawing was made on graph paper or other paper with a pattern or decoration. FIG(s)					
	The FIG. number label is placed in a location that causes the drawing to be read upside down. FIG(s)					
	Data, a reference number, or part of the drawing is truncated or missing. FIG(s)					
	The drawing is continued onto a second page (or more) without proper labeling under 37 CFR 1.84(u)(1). FIG(s)					
	The drawing and/or the FIG. label contain(s) foreign language. FIG(s)					
	Color drawings are present in this application but the following 37 CFR 1.84(a) requirements have not been met*:					
	☐ Petition filed					
	☐ Petition fee					
	☐ 3 sets of color drawings					
-	☐ Color drawing paragraph					

*If color drawings are not elected, then applicant must respond so stating. Also, references to color drawings in the specification, if any, must be amended.

COMMENTS:

Arthur Mc Cloud 703-308-9250 x136

NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

A. approved by the Draftsperson under 37 CFR 1.84 B. objected to by the Draftsperson under 37 CFR 1.84 drawings are required.	or 1.152. 4 or 1.152 for the reasons indicated below. Corrected
1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings: Black ink or Color (3 sets required). Color drawings are not acceptable until petition is granted. Fig(s) Pencil and non black ink not permitted. Fig(s) 2. PHOTOGRAPHS. 37 CFR 1.84(b) One (1) full-tone set is required. Fig(s) Photographs may not be mounted. 37 CFR 1.84(e) Photographs must meet paper size requirements of 37 CFR 1.84(f). Fig(s) Poor quality (half-tone). Fig(s) Paper not flexible, strong, white, and durable. Fig(s) Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s) 4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes: 21.0 cm by 29.7 cm (DIN size A4) or 21.6 cm by 27.9 cm (8 1/2x 11 inches) All drawing sheets not the same size. Sheet(s) Drawings sheets not an acceptable size. Fig(s) S. MARGINS. 37 CFR 1.84(g): Acceptable margins: Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm Margins not acceptable. Fig(s) Top (T) Left (L) Right (R) Bottom (B) 6. VIEWS. 37 CFR 1.84(h) REMINDER: Specification may require revision to correspond to drawing changes, e.g., if Fig. 1 is changed to Fig. 1A, Fig 1B and Fig. 1C, etc., the specification, at the Brief Description of the Drawings, must likewise be changed. Views not labeled separately or properly. Fig(s) 7. SECTIONAL VIEWS. 37 CFR 1.84(h)(3) Sectional designation should be noted with Arabic or Roman numbers. Fig(s) COMMENTS: New Sef of Ayawiys Yea	8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(i) Words do not appear on a horizontal. left-to-right fashion when page is either upright or turned-so that the top becomes the right side. except for graphs. Fig(s) 9. SCALE. 37 CFR 1.84(k) Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) 10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(1) Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Fig(s) 11. SHADING. 37 CFR 1.84(m) Solid black areas pale. Fig(s) Solid black shading not permitted. Fig(s) 12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p) Numbers and reference characters not plain and legible. Fig(s) Figure legends are poor. Fig(s) Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1) Fig(s) English alphabet not used. 37 CFR 1.84(p)(2) Fig(s) Numbers. letters and reference characters must be at least 32 cm (1/8 inch) in height. 37 CFR 1.84(p)(1) Fig(s) 13. LEAD LINES. 37 CFR 1.84(q) Lead lines missing. Fig(s) 14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(1) Sheets not numbered consecutively, and in Arabic numbers beginning with number 1. Sheet(s) 15. NUMBERING OF SHEETS OF DRAWINGS. 16. DESIGN DRAWINGS. 37 CFR 1.152 Surface shading shown not appropriate. Fig(s) Solid black surface shading is not permitted except when used to represent the color black as well as color contrast. Fig(s)
1. deviewer	Date R/4/06 Attachment to Paper No.
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